

bsm-33177M**[Primary Antibody]**

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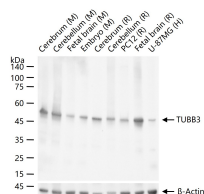
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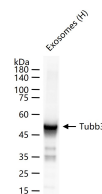
400-901-9800

TUBB3 | beta-III-Tubulin Mouse mAb**— DATASHEET —**

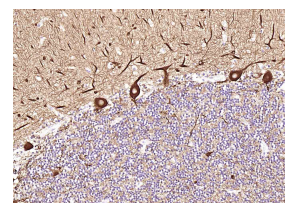
Host: Mouse	Isotype: IgG	Applications: WB (1:1000-10000) IHC-P (1:200-1000) IHC-F (1:200-1000) IF (1:200-1000) Flow-Cyt (1µg/Test) Reactivity: Human, Mouse, Rat (predicted: Rabbit, Sheep) Predicted MW.: 50 kDa Observed MW.: 50 kDa Subcellular Location: Cytoplasm
Clonality: Monoclonal	CloneNo.: 6F12	
GeneID: 10381	SWISS: Q13509	
Target: TUBB3 beta-III-Tubulin		
Purification: affinity purified by Protein G		
Concentration: 1mg/ml		
Storage: Size : 50ul/100ul/200ul/500ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Size : 200ug (PBS only) 0.01M PBS (pH7.4). Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: Neuronal Marker Beta III tubulin is abundant in the central and peripheral nervous systems (CNS and PNS) where it is prominently expressed during fetal and postnatal development. As exemplified in cerebellar and sympathoadrenal neurogenesis, the distribution of beta III is neuron-associated, exhibiting distinct temporospatial gradients according to the regional neuroepithelia of origin. However, transient expression of this protein is also present in the subventricular zones of the CNS comprising putative neuronal- and/or glial precursor cells, as well as in Kulchitsky neuroendocrine cells of the fetal respiratory epithelium. This temporally restricted, potentially non-neuronal expression may have implications in the identification of presumptive neurons derived from embryonic stem cells.		

— VALIDATION IMAGES —

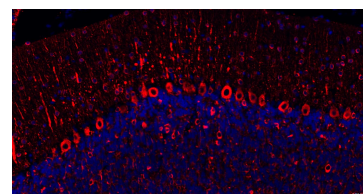
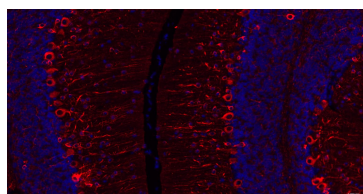
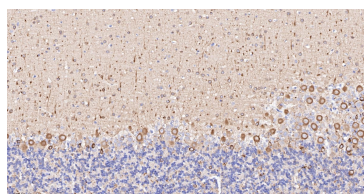
25 ug total protein per lane of various lysates (see on figure) probed with TUBB3 monoclonal antibody, unconjugated (bsm-33177M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



25 ug total protein per lane of various lysates (see on figure) probed with Tubb3 monoclonal antibody, unconjugated (bsm-33177M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded (human cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (TUBB3 (Neuronal Marker)) Monoclonal Antibody, Unconjugated (bsm-33177M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

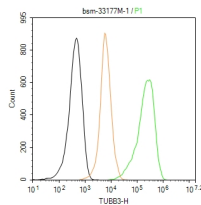


Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (TUBB3 (Neuronal Marker)) Monoclonal Antibody, Unconjugated (bsm-33177M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TUBB3 (Neuronal Marker) Antibody, Unconjugated (bsm-33177M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (Red, bs-0296G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.

Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TUBB3 (Neuronal Marker) Antibody, Unconjugated (bsm-33177M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (Red, bs-0296G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.



The U-87MG (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Mouse Anti-TUBB3 antibody (bsm-33177M): 1 µg/10⁶ cells; Isotype Control (orange): Mouse IgG (bs-0296P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=14.1]** Ruilin Du. et al. TTNPB Promotes Human Pluripotent Stem Cell-to-Neural Stem Cell Transition via Modulation of Chromatin Accessibility and the S-(5'-adenosyl)-L-homocysteine/Choline Metabolic Network. ADV SCI. 2026 Feb;;e15648 IF ;Human. 41666221
- **[IF=12.7]** Fangyu Qiao. et al. Growth factor collected cell membrane-functionalized matrix for vascular-innervated bone regeneration. COMPOSITES PART B-ENGINEERING. 2025 Feb;291:112019 IF ;Rat. 10.1016/j.compositesb.2024.112019
- **[IF=10.317]** Yu D et al. MOF-encapsulated nanozyme enhanced siRNA combo: Control neural stem cell differentiation and ameliorate cognitive impairments in Alzheimer's disease model. Biomaterials . 2020 Oct;255:120160. IF,ICC ;Rat&Mouse. 32540758
- **[IF=7.1]** Dai Nan. et al. DVL/GSK3/ISL1 pathway signaling: unraveling the mechanism of SIRT3 in neurogenesis and AD therapy. STEM CELL RES THER. 2024 Dec;15(1):1-18 ICC ;Mouse. 39267160
- **[IF=5.923]** Bing-Chun Liu. et al. Global Transcriptional Analyses of the Wnt-Induced Development of Neural Stem Cells from Human Pluripotent Stem Cells. Int J Mol Sci. 2021 Jan;22(14):7473 ICC ;Human. 34299091